

2118888

EPA NO. 4590002

FILE NO. P1-25

SDMS Document ID



2118888

## Attachment D

(request dated 28, 2000)

05/12/95 13:19 801 628 2138

HECLA A  
HECLA MINING CO.  
APEX UNIT

Date: 05-10-95

Reviewed By: *C. Brumper*

SAMPLE I.D.  
R-4859  
Pond 3A Solution.

Note: The minus  
sign (-) designates  
"less than".

~~Barium~~  
Mercury  
Selenium

ELEMENT	PPM	Comments
Silver	-0.1000	By A.A.S. or F.A.
Aluminum	-1.0000	By A.A.S.
✓ Arsenic	-5.0000	By A.A.S.
✓ Barium	-3.0000	By A.A.S.
Bismuth	-0.5000	By A.A.S.
Calcium	207.50000	By A.A.S.
✓ Cadmium	-0.05000	By A.A.S.
✓ Cobalt	10.50000	Ave of Duplicate.
✓ Chromium	-0.50000	By A.A.S.
Copper	-0.09000	By A.A.S.
Iron	-0.3000	By A.A.S.
Potassium	130.00000	By A.A.S.
Magnesium	175.00000	By A.A.S.
Manganese	11.93000	By A.A.S.
Molybdenum	-1.00000	By A.A.S.
Sodium	9300.00	By A.A.S.
Nickel	-0.40000	By A.A.S.
✓ Lead	-0.20000	By A.A.S.
✓ Selenium	-3.00000	By A.A.S.
Antimony	-1.00000	By A.A.S.
Samarium	-40.00000	By A.A.S.
Vanadium	-1.00000	By A.A.S.
Tungsten	-50.00000	By A.A.S.
Zinc	-0.09000	By Titration
Chloride	6000	By Spectrophotometer
Sulfate	10000	In grams/liter
TDS	15.9	
pH	8.1	



AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

463 West 3600 South  
Salt Lake City, Utah  
84115

## ORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: June 28, 1996  
Lab Sample ID.: 26433  
Set Description: One Water Sample

Contact: Alan Wilson  
Date Received: July 1, 1996  
Received By: Elona Hayward

Analysis Requested:  
Total Benzene

Method Ref. Number:  
EPA SW-846 #8260  
(Extraction GC/MS)

Date Analyzed:  
July 3, 1996

Lab Sample ID.:  
26433-01

Field Sample ID.:  
Apex/E-110

### Analytical Results

### TOTAL BENZENE

Units = mg/L (ppm)

(801) 263-8686  
Fax (801) 263-8687

Compound:

Reporting  
Limit:

Amount  
Detected:

Benzene

0.002

<0.002

<Value = None detected above the specified reporting limit, or a value that reflects a reasonable limit due to interferences.

Released by: Deane Baker

Laboratory Supervisor

Report Date 7/8/96

1 of 1

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CHRIS CHRISTOPHERSON, INC.  
P.O. Box 302  
Kellogg, Idaho 83837  
(208) 784-1233

HECLA MINING COMPANY  
PO BOX C-8000 6500 MINERAL DR  
COEUR D ALENE, ID 83814  
ATTN: ALLEN WILSON

MAY 13, 1996	U6HE0201.134	
TEST FOR:	Pb	As
METHOD:	AA	AA
USED:	ASSAY	ASSAY
RESULTS IN:	ppm	ppm
AP-1	50	<10
AP-2	50	<10

CHARGES	\$32.00
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N.E. OF POND 3A

  
Chris Christopherson  
Umpire Assayer/Chemist



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 18, 1997

Contact: Alan Wilson  
Date Received: September 19, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
3B-1

Lab Sample ID:  
L30769-1

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	09/22/97	7060	0.5	4.3
Lead	09/22/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

Released By: Diane Baker  
Laboratory Supervisor

Report Date: September 24, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 18, 1997

Contact: Alan Wilson  
Date Received: September 19, 1997

Field Sample ID:  
APEX  
3B-2

Lab Sample ID:  
L30769-2

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	09/22/97	7060	0.5	5.2
Lead	09/22/97	6010	3.0	<3.0

463 West 3600 South  
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Released By: 

Laboratory Supervisor

Report Date: September 24, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 18, 1997

Contact: Alan Wilson  
Date Received: September 19, 1997

Field Sample ID:  
APEX  
3B-3

Lab Sample ID:  
L30769-3

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

**Analytical Results**  
Units = mg/kg

<b>TOTAL METALS</b>	<b><u>Analysis Date:</u></b>	<b><u>Method Used:</u></b>	<b><u>Reporting Limit:</u></b>	<b><u>Amount Detected:</u></b>
Arsenic	09/22/97	7060	0.5	1.8
Lead	09/22/97	6010	3.0	<3.0

463 West 3600 South  
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Released By: \_\_\_\_\_

  
Laboratory Supervisor

Report Date: September 24, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 18, 1997

Contact: Alan Wilson  
Date Received: September 19, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
3B-4

Lab Sample ID:  
E30769-4

**Analytical Results**  
Units = mg/kg

<b>TOTAL METALS</b>	<b><u>Analysis Date:</u></b>	<b><u>Method Used:</u></b>	<b><u>Reporting Limit:</u></b>	<b><u>Amount Detected:</u></b>
Arsenic	09/22/97	7060	0.5	5.3
Lead	09/22/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

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Fax (801) 263-8687

Released By: Diane Belcher

Laboratory Supervisor

Report Date: September 24, 1997

1 of 1





## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 18, 1997

Contact: Alan Wilson  
Date Received: September 19, 1997

Field Sample ID:  
APEX  
3B-5

Lab Sample ID:  
L30769-5

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

**Analytical Results**  
Units = mg/kg

<b>TOTAL METALS</b>	<b><u>Analysis Date:</u></b>	<b><u>Method Used:</u></b>	<b><u>Reporting Limit:</u></b>	<b><u>Amount Detected:</u></b>
Arsenic	09/22/97	7060	0.5	19.
Lead	09/22/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

Released By: Alan Wilson

Laboratory Supervisor

Report Date: September 24, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 29, 1997

Contact: Alan Wilson  
Date Received: October 01, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:

APEX  
3B-X 6

Lab Sample ID:

L30928-1

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	10/03/97	7060	0.5	2.7
Lead	10/03/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
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Fax (801) 263-8687

Released By: Diane B. Seltzer

Laboratory Supervisor

Report Date: October 03, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 29, 1997

Contact: Alan Wilson  
Date Received: October 01, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
3B-2-7

Lab Sample ID:  
L30928-2

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	10/03/97	7060	0.5	1.7
Lead	10/03/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

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Toll Free (888) 263-8686  
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Released By: Dean Balg

Laboratory Supervisor

Report Date: October 03, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 29, 1997

Contact: Alan Wilson  
Date Received: October 01, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
4-UPPER EVAP POND

Lab Sample ID:  
L30928-4

**Analytical Results**  
Units = mg/kg

<b>TOTAL METALS</b>	<b><u>Analysis Date:</u></b>	<b><u>Method Used:</u></b>	<b><u>Reporting Limit:</u></b>	<b><u>Amount Detected:</u></b>
Arsenic	10/03/97	7060	0.5	1.9
Lead	10/03/97	6010	3.0	<3.0

463 West 3600 South  
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84115

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Fax (801) 263-8687

Released By: Rian Baker

Laboratory Supervisor

Report Date: October 03, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 29, 1997

Contact: Alan Wilson  
Date Received: October 01, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
3B-DIKE-#3

Lab Sample ID:  
L30928-3

### Analytical Results

Units = mg/kg

<b>TOTAL METALS</b>	<b><u>Analysis Date:</u></b>	<b><u>Method Used:</u></b>	<b><u>Reporting Limit:</u></b>	<b><u>Amount Detected:</u></b>
Arsenic	10/03/97	7060	0.5	24.
Lead	10/03/97	6010	3.0	25.

463 West 3600 South  
Salt Lake City, Utah  
84115

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Toll Free (888) 263-8686  
Fax (801) 263-8687

Released By: Alan Wilson

Laboratory Supervisor

Report Date: October 03, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: October 10, 1997

Contact: Alan Wilson  
Date Received: October 13, 1997

Field Sample ID:  
APEX  
DISCH 2

Lab Sample ID:  
L31064-1

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	10/14/97	7060	0.5	2.6
Lead	10/14/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

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ll Free (888) 263-8686  
Fax (801) 263-8687

Released By: Don Belk

Laboratory Supervisor

Report Date: October 15, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: October 10, 1997

Contact: Alan Wilson  
Date Received: October 13, 1997

Field Sample ID:  
APEX  
2A

Lab Sample ID:  
L31064-2

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

**Analytical Results**  
Units = mg/kg

<b>TOTAL METALS</b>	<b><u>Analysis Date:</u></b>	<b><u>Method Used:</u></b>	<b><u>Reporting Limit:</u></b>	<b><u>Amount Detected:</u></b>
Arsenic	10/14/97	7060	0.5	63.
Lead	10/14/97	6010	3.0	190.

463 West 3600 South  
Salt Lake City, Utah  
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(801) 263-8686  
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Fax (801) 263-8687

Released By:                     

Laboratory Supervisor

Report Date: October 15, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: October 17, 1997

Contact: Alan Wilson  
Date Received: October 20, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
2A-2

Lab Sample ID:  
L31134-1

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	10/21/97	7060	0.5	3.2
Lead	10/21/97	6010	3.0	<3.0

163 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
1 Free (888) 263-8686  
Fax (801) 263-8687

Released By: Diane Scher

Laboratory Supervisor

Report Date: October 22, 1997

1 of 1





## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 29, 1997

Contact: Alan Wilson  
Date Received: October 01, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
5-DISCHARGE LINE

Lab Sample ID:  
L30928-5

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	10/03/97	7060	0.5	290.
Lead	10/03/97	6010	3.0	130.

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

Dredge discharge line to  
pond #2

Released By: \_\_\_\_\_

Laboratory Supervisor

Report Date: October 03, 1997

1 of 1